

CLAIMS

What is claimed is:

Claim 1. In a mobile vehicle having a wheeled chassis carrying an engine driving said wheels and including an electrical system of at least 12 volts capacity, said vehicle adapted to carry temperature sensitive components which require a certain range of temperatures, the improvement comprising an integral temperature controlled compartment adapted to connect to said vehicle electrical system, said compartment having insulated walls with a mechanical refrigerating unit operated by an electrically powered compressor mounted on said compartment to provide a portion of said certain range of temperatures for said compartment, an electrical heating unit mounted on said compartment to provide a portion of said certain range of temperatures for said compartment, said compartment having a temperature sensor, and a door mounted on a wall of said compartment to selectively gain access to the interior of said compartment.

Claim 2. The temperature controlled compartment of
herein said mechanical refrigerating unit and said

1 electric heating unit are electronically controlled by
2 computer, said computer programmed with said certain range of
3 temperatures, said computer connected to said temperature
4 sensor, said temperature sensor signaling said computer as to
5 the temperature in said compartment, said computer activating
6 said refrigerating unit or said electrical heating unit in
7 response to said temperature sensor signal to maintain said
8 compartment within said certain range of temperatures.

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10 Claim 3. The temperature controlled compartment of
11 claim 1 wherein said temperature sensor is connected to a
12 remote gauge located in said vehicle, said gauge visually
13 indicating the temperature in said compartment.

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15 Claim 4. The temperature controlled compartment of
16 claim 2 wherein said vehicle includes a horn, said
17 temperature sensor is connected to said horn, said horn
18 activated by said temperature sensor when the temperature in
19 said compartment reaches a certain level.

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21 Claim 5. The temperature controlled compartment
22 of claim 3 wherein said vehicle includes a horn, said
23 temperature sensor is connected to said horn, said horn
24 activated by said temperature sensor when the temperature in
25 said compartment reaches a certain level.

1 Claim 6. The temperature controlled compartment
2 of claim 1 wherein said door has a latch, said latch is
3 connected to an electronic printer, said printer making a
4 written record of the date, time, and temperature in said
5 compartment when said latch is operated, said printer
6 recording the duration of time the door is ajar.

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8 Claim 7. The temperature controlled compartment of
9 claim 6 wherein said printer has an audible alarm, said alarm
10 activated when the temperature in said compartment is outside
11 said certain range of temperatures, said printer making a
12 written record of the time, date and length of time said
13 temperature is outside said certain range of temperatures.

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15 Claim 8. The temperature controlled compartment of
16 claim 1 wherein an electronic printer is connected to said
17 compartment, said printer including an audible alarm, said
18 alarm activated when the temperature in said compartment is
19 outside said certain range of temperatures, said printer
20 making a written record of the time, date and length of time
21 said temperature is outside said certain range of
22 temperatures.

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24 Claim 9. The temperature controlled compartment
25 of claim 2 wherein said door has a latch, said latch is

1 connected to said computer, said computer recording the date,
2 time and temperature in said compartment when said latch is
3 operated, said computer recording the duration of time said
4 door is ajar.

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6 Claim 10. The temperature controlled compartment
7 of claim 2 wherein said computer includes a soft start
8 program for operating said refrigerating unit and said
9 electrical heating unit without a power surge in said
10 electrical system.

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12 Claim 11. The temperature controlled compartment
13 of claim 2 wherein said interior of said compartment is from
14 approximately two cubic feet to approximately four cubic feet
15 and said mounting space in said vehicle is from approximately
16 18 inches in depth, 20 inches in height and 17.75 inches in
17 width to approximately 26.625 inches in depth, 20.5 inches in
18 height and 17.75 inches in width.

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20 Claim 12. A small , portable, light weight, self
21 contained, electrically powered, temperature controlled
22 storage container, adapted for vehicular mount and operation
23 by the electrical system of a vehicle, said storage container
24 having insulated walls enclosing an interior space, a door on
25 one of said walls for selectively gaining access to said

1 interior space, said storage container having an electrically
2 operated micro compressor mounted thereon driving a
3 mechanical refrigerating system cooling said interior of said
4 storage container, said storage container having electrical
5 heating elements mounted thereon heating said interior of
6 said storage container, a temperature sensor connected to
7 said compartment indicating the temperature in said interior
8 space, said temperature sensor connected to a computer, said
9 refrigerating system and said heating elements connected to
10 said computer, said computer controlling the operation of
11 said refrigerating system and said heating elements, said
12 computer programmed with parameters including a high
13 temperature limit and a low temperature limit defining a
14 certain range of temperatures, said computer activating said
15 refrigerating system or said heating elements to maintain
16 said temperature in said interior space within said certain
17 range of temperatures.

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19 Claim 13. The storage container of claim 12
20 wherein said computer is programmed with parameters including
21 recording the temperature, time, date and length of time
22 that said temperature in said interior space is outside said
23 certain range of temperatures.

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25 Claim 14. The storage container of claim 13

1 wherein said computer is connected to said door, said
2 computer programmed with parameters including recording the
3 time, date and temperature in said interior space of said
4 container when said door is open.

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6 Claim 15. The storage container of claim 14
7 wherein said computer is programmed with parameters including
8 recording the length of time said door is open.

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10 Claim 16. The storage container of claim 15
11 wherein said computer is connected to a printer, said printer
12 producing a permanent record of said parameters.

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14 Claim 17. The storage container of claim 15
15 wherein said interior space is from approximately 2 cubic
16 feet to approximately 4 cubic feet and said weight is from
17 approximately 25 pounds to approximately 45 pounds.

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